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>Title: **JP01206671A2: SOLAR CELL**

Derwent Title: Solar battery improving power generation efficiency - has several electrodes and outside conductor to collect electric current finely diffused on light receiver NoAbstract Dwg 1/4 [Derwent Record]

Country: JP Japan

Kind: A

Inventor: NUNOI TORU;

Assignee: SHARP CORP
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Published / Filed: 1989-08-18 / 1988-02-15

Application Number: JP1988000032325

IPC Code: H01L 31/04:

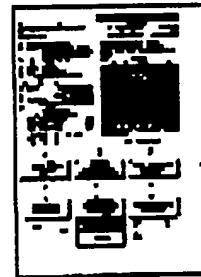
Priority Number: 1988-02-15 JP1988000032325

Abstract: PURPOSE: To make an area occupied by an electrode smaller so as to improve a solar cell in a photoelectric conversion efficiency by a method wherein two or more electrodes which collect currents of small domains arranged dispersedly on a photoreceptive face and a lead wire, provided to the outside of the photoreceptive face, which joins the current collected by the electrodes together are equipped.

CONSTITUTION: An n-type silicon semiconductor layer 2 is provided to one side of a p-type silicon semiconductor substrate 1 and an electrode metal layer 6 of silver or the like is provided to the whole other side of the substrate 1. Many thin electrodes 4, 4... are arranged on the surface of the n-type semiconductor layer 2 at a nearly equal interval between them, where the surface is made to serve as a photoreceptive face, and lead wires 9 and 9 are provided to the outside of the photoreceptive face and connected with the electrodes 4, 4... through connecting wires 8, 8.... A connecting point 10 of the connecting wire 8 with the electrode 4 can be provided to the outside of the photoreceptive face or a part of the electrode 4 can be extended to connect it directly with the lead wire 9. By these processes, an electrode which joins the currents together collected by electrodes from many small domains does not need to be provided to a photoreceptive face, so that a light incident area can be increased and consequently a solar cell can be improved in a photoelectric conversion efficiency.

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Family: None



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SOLAR CELL (JP01206671A2)

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| Buy PDF | Patent | Pub.Date | Inventor | Assignee | Title |
|---------|-----------|------------|-------------------|------------------------|---|
| | US5259891 | 1993-11-09 | Matsuyama; Jinsho | Canon Kabushiki Kaisha | Integrated type solar battery |
| | US5158618 | 1992-10-27 | Rubin; Leond B. | BioPhotonics, Inc. | Photovoltaic cells for converting light energy to electric energy and photoelectric battery |

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